

## Chapter Statistics, Exemplar Class IX Ex 14.3

### NCERT Exemplar Solutions by Dev Anoop (Bathinda)

4. Class Size =  $15 - 5$   
 $= 10$

$$\begin{aligned}\text{First Lower limit} &= 5 - \frac{10}{2} \\ &= 5 - 5 \\ &= 0\end{aligned}$$

$$\begin{aligned}\text{First Upper Limit} &= \text{Lower Limit} + \text{class Size} \\ &= 0 + 10 \\ &= 10\end{aligned}$$

Mid Value	Class Interval	Frequency
5	0 - 10	4
15	10 - 20	8
25	20 - 30	13
35	30 - 40	12
45	40 - 50	6
Total		43

5.  $154 - 153$   
 $= 1$   
 $\frac{1}{2}$   
 $= 0.5$

Each Lower Limit - 0.5, Each Upper Limit + 0.5

153.5 is included in the second interval and 157.5 is included in the third interval.

Class Interval	Continuous CI	Frequency
150 - 153	149.5 - 153.5	7
154 - 157	153.5 - 157.5	7
158 - 161	157.5 - 161.5	15
162 - 165	161.5 - 165.5	10
166 - 169	165.5 - 169.5	5
170 - 173	169.5 - 173.5	6
Total		50